

Syngp120mn

1 CTCGAGATCC ATTGTGCTCT AAAGGAGATA CCCGGCCAGA CACCCTCACC  
51 TGCGGTGCCC AGCTGCCCAG GCTGAGGCAA GAGAAGGCCA GAAACCATGC  
101 CCATGGGGTC TCTGCAACCG CTGGCCACCT TGTACCTGCT GGGGATGCTG  
151 GTCGCTTCCG TGCTAGCCAC CGAGAAGCTG TGGGTGACCG TGTACTACGG  
201 CGTGCCCGTG TGGAAGGAGG CCACCACCAC CCTGTTCTGC GCCAGCGACG  
251 CCAAGGCGTA CGACACCGAG GTGCACAACG TGTGGGCCAC CCAGGCGTGC  
301 GTGCCCACCG ACCCCAACCC CCAGGAGGTG GAGCTCGTGA ACGTGACCGA  
351 GAACTTCAAC ATGTGGAAGA ACAACATGGT GGAGCAGATG CATGAGGACA  
401 TCATCAGCCT GTGGGACCAG AGCCTGAAGC CCTGCGTGAA GCTGACCCCC  
451 CTGTGCGTGA CCCTGAACTG CACCGACCTG AGGAACACCA CCAACACCAA  
501 CAACAGCACC GCCAACAACA ACAGCAACAG CGAGGGCACC ATCAAGGGCG  
551 GCGAGATGAA GAACTGCAGC TTCAACATCA CCACCAGCAT CCGCGACAAG  
601 ATGCAGAAGG AGTACGCCCT GCTGTACAAG CTGGATATCG TGAGCATCGA  
651 CAACGACAGC ACCAGCTACC GCCTGATCTC CTGCAACACC AGCGTGATCA  
701 CCCAGGCCTG CCCCAGATC AGCTTCGAGC CCATCCCCAT CCACTACTGC  
751 GCCCCCGCCG GCTTCGCCAT CCTGAAGTGC AACGACAAGA AGTTCAGCGG  
801 CAAGGGCAGC TGCAAGAACG TGAGCACCGT GCAGTGCACC CACGGCATCC  
851 GGCCGGTGGT GAGCACCCAG CTCCTGCTGA ACGGCAGCCT GGCCGAGGAG  
901 GAGGTGGTGA TCCGCAGCGA GAACTTCACC GACAACGCCA AGACCATCAT  
951 CGTGACCTG AATGAGAGCG TGCAGATCAA CTGCACGCGT CCCAACTACA  
1001 ACAAGCGCAA GCGCATCCAC ATCGGCCCCG GGCGCGCCTT CTACACCACC  
1051 AAGAACATCA TCGGCACCAT CCGCCAGGCC CACTGCAACA TCTCTAGAGC  
1101 CAAGTGGAAC GACACCCTGC GCCAGATCGT GAGCAAGCTG AAGGAGCAGT  
1151 TCAAGAACAA GACCATCGTG TTCAACCAGA GCAGCGGCGG CGACCCCGAG  
1201 ATCGTGATGC ACAGCTTCAA CTGCGGCGGC GAATTCTTCT ACTGCAACAC  
1251 CAGCCCCCTG TTCAACAGCA CCTGGAACGG CAACAACACC TGGAAACAACA  
1301 CCACCGGCAG CAACAACAAT ATTACCCTCC AGTGCAAGAT CAAGCAGATC  
1351 ATCAACATGT GGCAGGAGGT GGGCAAGGCC ATGTACGCCC CCCCATCGA  
1401 GGGCCAGATC CGGTGCAGCA GCAACATCAC CGGTCTGCTG CTGACCCGCG  
1451 ACGGCGGCAA GGACACCGAC ACCAACGACA CCGAAATCTT CCGCCCCGGC

Fig. 1A

2/18

1501 GCGGGCGACA TCGCGGACAA CTGGAGATCT GAGCTGTACA AGTACAAGGT  
1551 GGTGACGATC GAGCCCCTGG GCGTGGCCCC CACCAAGGCC AAGCGCCGCG  
1601 TGGTGCAGCG CGAGAAGCGC TAAAGCGGCC GC (SEQ ID NO: 34)

Fig. 1B

Syngp160mn

```

1  ACCGAGAAGC TGTGGGTGAC CGTGTACTAC GCGGTGCCCCG TGTGGAAGGA
51  GGCCACCACC ACCCTGTTCT GCGCCAGCGA CGCCAAGGCG TACGACACCG
101 AGGTGCACAA CGTGTGGGCC ACCCAGGCGT GCGTGCCAC CGACCCCAAC
151 CCCAGGAGG TGGAGCTCGT GAACGTGACC GAGAACTTCA ACATGTGGAA
201 GAACAACATG GTGGAGCAGA TGCATGAGGA CATCATCAGC CTGTGGGACC
251 AGAGCCTGAA GCCCTGCGTG AAGCTGACCC CCCTGTGCGT GACCCTGAAC
301 TGCACCGACC TGAGGAACAC CACCAACACC AACAAACAGCA CCGCCAACAA
351 CAACAGCAAC AGCGAGGGCA CCATCAAGGG CGGCGAGATG AAGAACTGCA
401 GCTTCAACAT CACCACCAGC ATCCGCGACA AGATGCAGAA GGAGTACGCC
451 CTGCTGTACA AGCTGGATAT CGTGAGCATC GACAACGACA GCACCAGCTA
501 CCGCCTGATC TCCTGCAACA CCAGCGTGAT CACCCAGGCC TGCCCCAAGA
551 TCAGCTTCGA GCCCATCCCC ATCCACTACT GCGCCCCCGC CGGCTTCGCC
601 ATCCTGAAGT GCAACGACAA GAAGTTCAGC GGCAAGGGCA GCTGCAAGAA
651 CGTGAGCACC GTGCAGTGCA CCCACGGCAT CCGGCCGGTG GTGAGCACCC
701 AGCTCCTGCT GAACGGCAGC CTGGCCGAGG AGGAGGTGGT GATCCGCAGC
751 GAGAACTTCA CCGACAACGC CAAGACCATC ATCGTGCACC TGAATGAGAG
801 CGTGCAGATC AACTGCACGC GTCCCAACTA CAACAAGCGC AAGCGCATCC
851 ACATCGGCCC CGGGCGCGCC TTCTACACCA CCAAGAACAT CATCGGCACC
901 ATCCGCCAGG CCCACTGCAA CATCTCTAGA GCCAAGTGGA ACGACACCCT
951 GCGCCAGATC GTGAGCAAGC TGAAGGAGCA GTTCAAGAAC AAGACCATCG
1001 TGTTC AACCA GAGCAGCGGC GCGACCCCG AGATCGTGAT GCACAGCTTC
1051 AACTGCGGCG GCGAATTCTT CTACTGCAAC ACCAGCCCCC TGTTC AACAG
1101 CACCTGGAAC GGCAACAACA CCTGGAACAA CACCACCGGC AGCAACAACA
1151 ATATTACCCT CCAGTGCAAG ATCAAGCAGA TCATCAACAT GTGGCAGGAG
1201 GTGGGCAAGG CCATGTACGC CCCCCCATC GAGGGCCAGA TCCGGTGCAG
1251 CAGCAACATC ACCGGTCTGC TGCTGACCCG CGACGGCGGC AAGGACACCG
1301 ACACCAACGA CACCGAAATC TTCCGCCCCG GCGGCGGCGA CATGCGCGAC
1351 AACTGGAGAT CTGAGCTGTA CAAGTACAAG GTGGTGACGA TCGAGCCCCT
1401 GGGCGTGGCC CCCACCAAGG CCAAGCGCCG CGTGGTGCAG CGCGAGAAGC
1451 GGGCCGCCAT CGGCGCCCTG TTCCTGGGCT TCCTGGGGGC GCGGGGCAGC

```

Fig. 1C

1501 ACCATGGGGG CCGCCAGCGT GACCCTGACC GTGCAGGCCC GCCTGCTCCT  
1551 GAGCGGCATC GTGCAGCAGC AGAACAACCT CCTCCGCGCC ATCGAGGCCC  
1601 AGCAGCATAT GCTCCAGCTC ACCGTGTGGG GCATCAAGCA GCTCCAGGCC  
1651 CGCGTGCTGG CCGTGGAGCG CTACCTGAAG GACCAGCAGC TCCTGGGCTT  
1701 CTGGGGCTGC TCCGGCAAGC TGATCTGCAC CACCACGGTA CCCTGGAACG  
1751 CCTCCTGGAG CAACAAGAGC CTGGACGACA TCTGGAACAA CATGACCTGG  
1801 ATGCAGTGGG AGCGCGAGAT CGATAACTAC ACCAGCCTGA TCTACAGCCT  
1851 GCTGGAGAAG AGCCAGACCC AGCAGGAGAA GAACGAGCAG GAGCTGCTGG  
1901 AGCTGGACAA GTGGGCGAGC CTGTGGAACT GGTTCGACAT CACCAACTGG  
1951 CTGTGGTACA TCAAAATCTT CATCATGATT GTGGGCGGCC TGGTGGGCCT  
2001 CCGCATCGTG TTCGCCGTGC TGAGCATCGT GAACCGCGTG CGCCAGGGCT  
2051 ACAGCCCCCT GAGCCTCCAG ACCCGGCCCC CCGTGCCGCG CGGGCCCCGAC  
2101 CGCCCCGAGG GCATCGAGGA GGAGGGCGGC GAGCGCGACC GCGACACCAG  
2151 CGGCAGGCTC GTGCACGGCT TCCTGGCGAT CATCTGGGTC GACCTCCGCA  
2201 GCCTGTTCTT GTTCAGCTAC CACCACCGCG ACCTGCTGCT GATCGCCGCC  
2251 CGCATCGTGG AACTCCTAGG CCGCCGCGGC TGGGAGGTGC TGAAGTACTG  
2301 GTGGAACCTC CTCCAGTATT GGAGCCAGGA GCTGAAGTCC AGCGCCGTGA  
2351 GCCTGCTGAA CGCCACCGCC ATCGCCGTGG CCGAGGGCAC CGACCGCGTG  
2401 ATCGAGGTGC TCCAGAGGGC CGGGAGGGCG ATCCTGCACA TCCCCACCCG  
2451 CATCCGCCAG GGGCTCGAGA GGGCGCTGCT G (SEQ ID NO: 35)

Fig. 1D

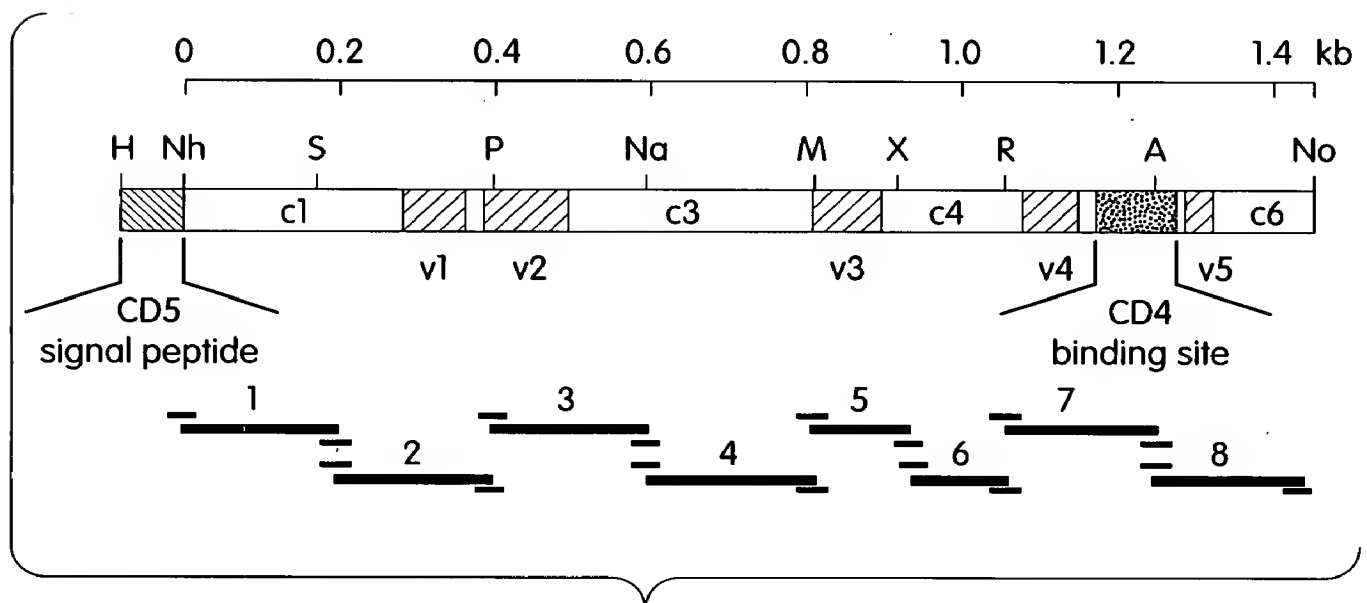


Fig. 2

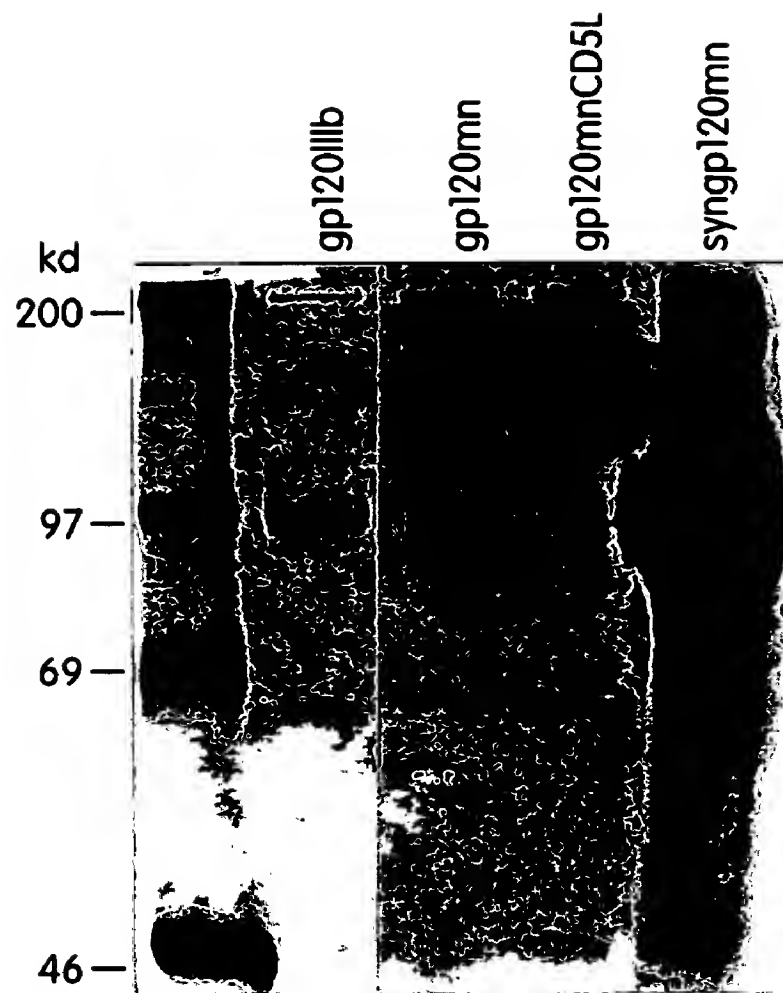


Fig. 3

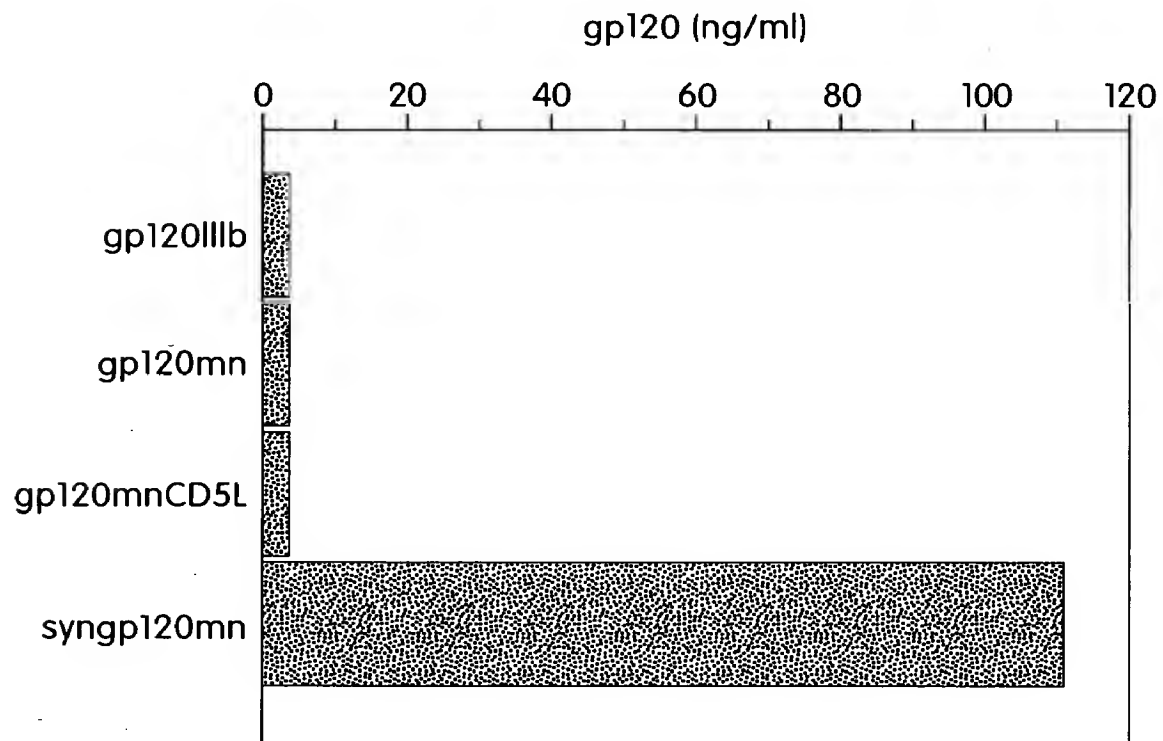


Fig. 4

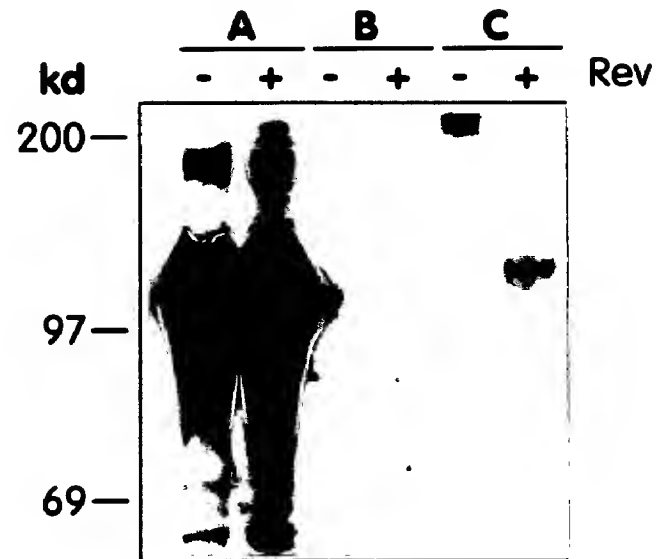


Fig. 5A



Fig. 5B

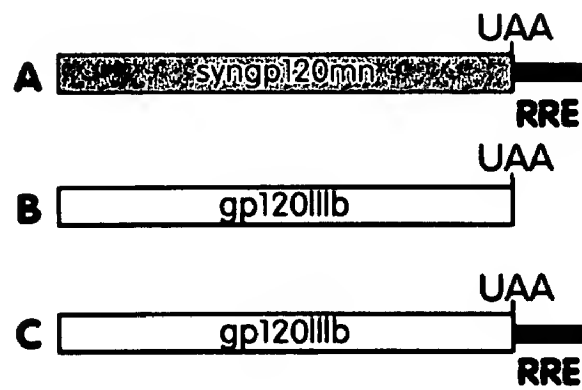


Fig. 5C



(SEQ ID NO: 36)  
(SEQ ID NO: 37)

6. Fi o

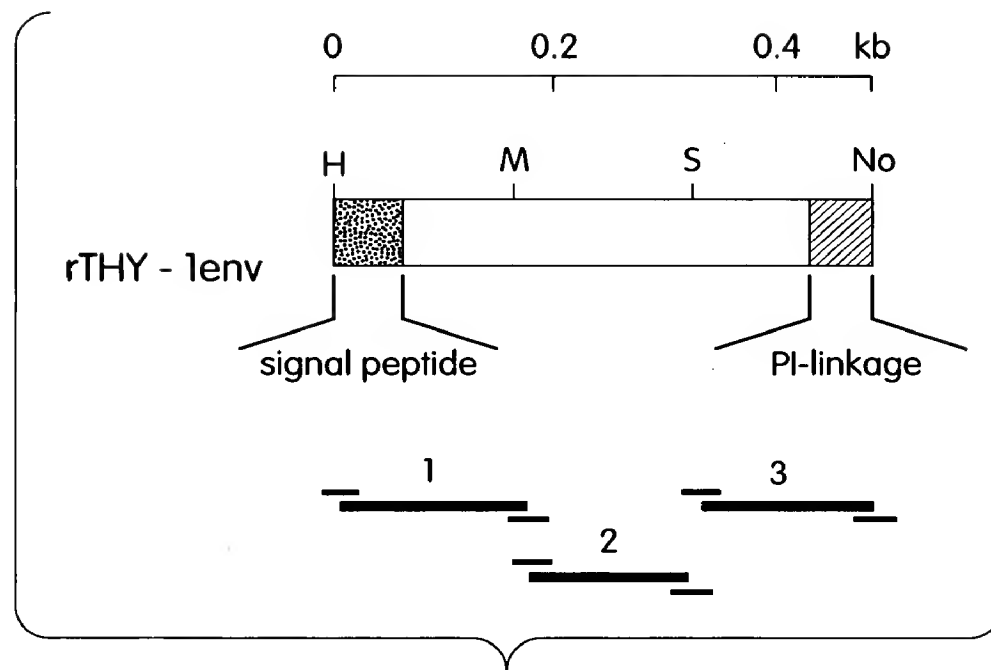


Fig. 7

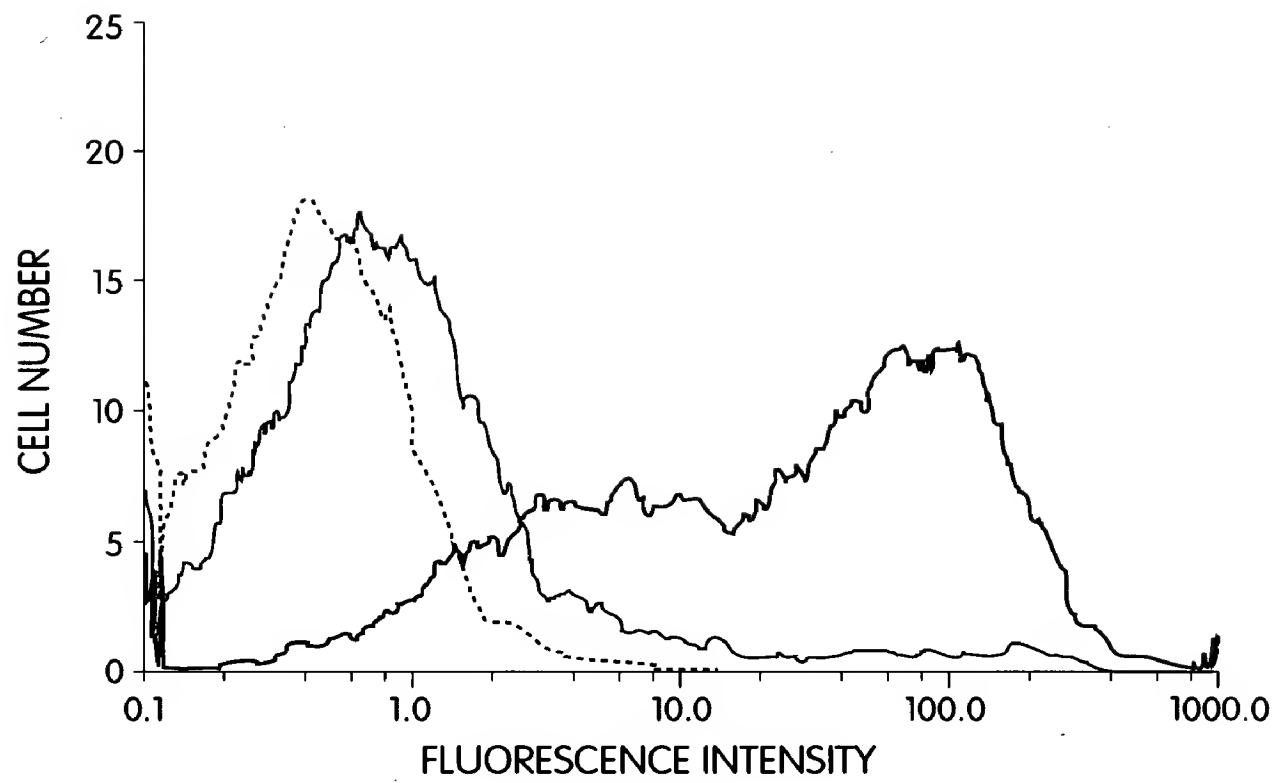


Fig. 8

12/18

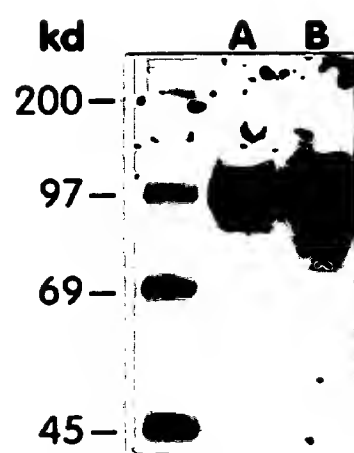


Fig. 9A

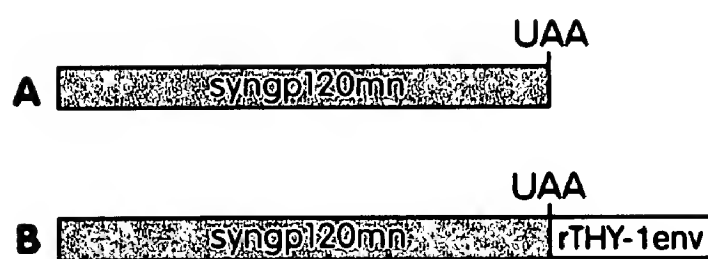


Fig. 9B

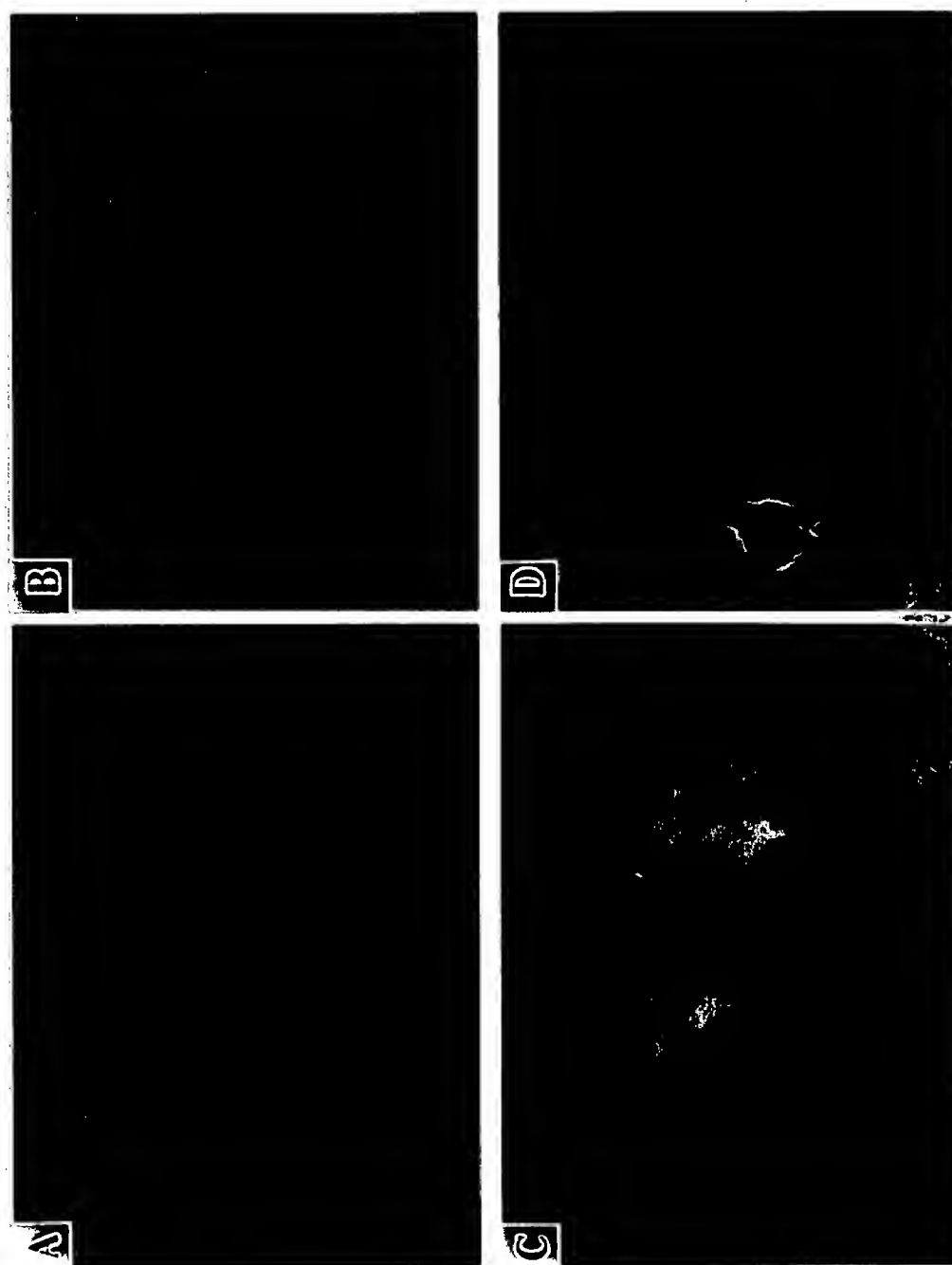


Fig 10

1 GAATTCACGC GTAAGCTTGC CGCCACCATG GTGAGCAAGG GCGAGGAGCT  
51 GTTCACCGGG GTGGTGCCCA TCCTGGTCGA GCTGGACGGC GACGTGAACG  
101 GCCACAAGTT CAGCGTGTCC GGCGAGGGCG AGGGCGATGC CACCTACGGC  
151 AAGCTGACCC TGAAGTTCAT CTGCACCACC GGCAAGCTGC CCGTGCCCTG  
201 GCCCACCCTC GTGACCACCT TCAGCTACGG CGTGCAGTGC TTCAGCCGCT  
251 ACCCCGACCA CATGAAGCAG CACGACTTCT TCAAGTCCGC CATGCCCCGAA  
301 GGCTACGTCC AGGAGCGCAC CATCTTCTTC AAGGACGACG GCAACTACAA  
351 GACCCGCGCC GAGGTGAAGT TCGAGGGCGA CACCCTGGTG AACCGCATCG  
401 AGCTGAAGGG CATCGACTTC AAGGAGGACG GCAACATCCT GGGGCACAAG  
451 CTGGAGTACA ACTACAACAG CCACAACGTC TATATCATGG CCGACAAGCA  
501 GAAGAACGGC ATCAAGGTGA ACTTCAAGAT CCGCCACAAC ATCGAGGACG  
551 GCAGCGTGCA GCTCGCCGAC CACTACCAGC AGAACACCCC CATCGGCGAC  
601 GGCCCCGTGC TGCTGCCCCG CAACCACTAC CTGAGCACCC AGTCCGCCCT  
651 GAGCAAAGAC CCAACGAGA AGCGCGATCA CATGGTCCTG CTGGAGTTCG  
701 TGACCGCCGC CGGGATCACT CACGGCATGG ACGAGCTGTA CAAGTAAAGC  
751 GGCCGCGGAT CC

Fig. 11

1	AAGCTTAAAC	CATGCCCATG	GGGTCTCTGC	AACCGCTGGC	CACCTTGTAC
51	CTGCTGGGGA	TGCTGGTCGC	TTCCGTGCTA	GCCGCCACCA	GAAGATACTA
101	CCTGGGTGCA	GTGGAACGTG	CATGGGACTA	TATGCAAAGT	GATCTCGGTG
151	AGCTGCCTGT	GGACGCAAGA	TTTCCTCCTA	GAGTGCCAAA	ATCTTTTCCA
201	TTCAACACCT	CAGTCGTGTA	CAAAAAGACT	CTGTTTGTAG	AATTCACGGA
251	TCACCTTTTC	AACATCGCTA	AGCCAAGGCC	ACCCTGGATG	GGTCTGCTAG
301	GTCCTACCAT	CCAGGCTGAG	GTTTATGATA	CAGTGGTCAT	TACACTTAAG
351	AACATGGCTT	CCCATCCTGT	CAGTCTTCAT	GCTGTTGGTG	TATCCTACTG
401	GAAAGCTTCT	GAGGGAGCTG	AATATGATGA	TCAGACCAGT	CAAAGGGAGA
451	AAGAAGATGA	TAAAGTCTTC	CCTGGTGGAA	GCCATACATA	TGTCTGGCAG
501	GTCCTGAAAG	AGAATGGTCC	AATGGCCTCT	GACCCACTGT	GCCTTACCTA
551	CTCATATCTT	TCTCATGTGG	ACCTGGTAAA	AGACTTGAAT	TCAGGCCTCA
601	TTGGAGCCCT	ACTAGTATGT	AGAGAAGGGA	GTCTGGCCAA	GGAAAAGACA
651	CAGACCTTGC	ACAAATTTAT	ACTACTTTTT	GCTGTATTTG	ATGAAGGGAA
701	AAGTTGGCAC	TCAGAAACAA	AGAACTCCTT	GATGCAGGAT	AGGGATGCTG
751	CATCTGCTCG	GGCCTGGCCT	AAAATGCACA	CAGTCAATGG	TTATGTAAAC
801	AGGTCTCTGC	CAGGTCTGAT	TGGATGCCAC	AGGAAATCAG	TCTATTGGCA
851	TGTGATTGGA	ATGGGCACCA	CTCCTGAAGT	GCACTCAATA	TTCTTCGAAG
901	GTCACACATT	TCTTGTGAGG	AACCATCGCC	AGGCGTCCTT	GGAAATCTCG
951	CCAATAACTT	TCCTTACTGC	TCAAACACTC	TTGATGGACC	TTGGACAGTT
1001	TCTACTGTTT	TGTCATATCT	CTTCCCACCA	ACATGATGGC	ATGGAAGCTT
1051	ATGTCAAAGT	AGACAGCTGT	CCAGAGGAAC	CCCAACTACG	AATGAAAAAT
1101	AATGAAGAAG	CGGAAGACTA	TGATGATGAT	CTTACTGATT	CTGAAATGGA
1151	TGTGGTCAGG	TTTGATGATG	ACAACCTCTC	TTCTTTTATC	CAAATTCGCT
1201	CAGTTGCCAA	GAAGCATCCT	AAAACCTGGG	TACATTACAT	TGCTGCTGAA
1251	GAGGAGGACT	GGGACTATGC	TCCCTTAGTC	CTCGCCCCCG	ATGACAGAAG
1301	TTATAAAAGT	CAATATTTGA	ACAATGGCCC	TCAGCGGATT	GGTAGGAAGT
1351	ACAAAAAAGT	CCGATTTATG	GCATACACAG	ATGAAACCTT	TAAGACTCGT
1401	GAAGCTATTC	AGCATGAATC	AGGAATCTTG	GGACCTTTAC	TTTATGGGGA
1451	AGTTGGAGAC	ACACTGTTGA	TTATATTTAA	GAATCAAGCA	AGCAGACCAT
1501	ATAACATCTA	CCCTCACGGA	ATCACTGATG	TCCGTCCTTT	GTATTCAAGG
1551	AGATTACCAA	AAGGTGTAAA	ACATTTGAAG	GATTTTCCAA	TTCTGCCAGG
1601	AGAAATATTC	AAATATAAAT	GGACAGTGAC	TGTAGAAGAT	GGGCCAACTA
1651	AATCAGATCC	TCGGTGCCCTG	ACCCGCTATT	ACTCTAGTTT	CGTTAATATG
1701	GAGAGAGATC	TAGCTTCAGG	ACTCATTGGC	CCTCTCCTCA	TCTGCTACAA
1751	AGAATCTGTA	GATCAAAGAG	GAAACCAGAT	AATGTCAGAC	AAGAGGAATG
1801	TCATCCTGTT	TTCTGTATTT	GATGAGAACC	GAAGCTGGTA	CCTCACAGAG
1851	AATATACAAC	GCTTTCTCCC	CAATCCAGCT	GGAGTGCAGC	TTGAGGATCC
1901	AGAGTTCCAA	GCCTCCAACA	TCATGCACAG	CATCAATGGC	TATGTTTTTG
1951	ATAGTTTGCA	GTTGTCAGTT	TGTTTGCATG	AGGTGGCATA	CTGGTACATT
2001	CTAAGCATTG	GAGCACAGAC	TGACTTCCTT	TCTGTCTTCT	TCTCTGGATA
2051	TACCTTCAAA	CACAAAATGG	TCTATGAAGA	CACACTCACC	CTATTCCCAT
2101	TCTCAGGAGA	AACTGTCTTC	ATGTCGATGG	AAAACCCAGG	TCTATGGATT
2151	CTGGGGTGCC	ACAACTCAGA	CTTTCGGAAC	AGAGGCATGA	CCGCCTTACT
2201	GAAGGTTTCT	AGTTGTGACA	AGAACACTGG	TGATTATTAC	GAGGACAGTT
2251	ATGAAGATAT	TTCAGCATAC	TTGCTGAGTA	AAAACAATGC	CATTGAACCA
2301	AGAAGCTTCT	CCCAGAATTG	AAGACACCCT	AGCACTAGGC	AAAAGCAATT
2351	TAATGCCACC	CCACCAGTCT	TGAAACGCCA	TCAACGGGAA	ATAACTCGTA
2401	CTACTCTTCA	GTCAGATCAA	GAGGAAATTG	ACTATGATGA	TACCATATCA
2451	GTTGAAATGA	AGAAGGAAGA	TTTTGACATT	TATGATGAGG	ATGAAAATCA
2501	GAGCCCCCGC	AGCTTTTCAA	AGAAAACACG	ACACTATTTT	ATTGCTGCAG
2551	TGGAGAGGCT	CTGGGATTAT	GGGATGAGTA	GCTCCCCACA	TGTTCTAAGA
2601	AACAGGGCTC	AGAGTGGCAG	TGTCCCTCAG	TTCAAGAAAG	TTGTTTTCCA
2651	GGAATTTACT	GATGGCTCCT	TTACTCAGCC	CTTATACCGT	GGAGAACTAA

Fig. 12A

2701	ATGAACATTT	GGGACTCCTG	GGGCCATATA	TAAGAGCAGA	AGTTGAAGAT
2751	AATATCATGG	TAACTTTCAG	AAATCAGGCC	TCTCGTCCCT	ATTCCTTCTA
2801	TTCTAGCCTT	ATTTCTTATG	AGGAAGATCA	GAGGCAAGGA	GCAGAACCTA
2851	GAAAAAACTT	TGTCAAGCCT	AATGAAACCA	AAACTTACTT	TTGGAAAGTG
2901	CAACATCATA	TGGCACCCAC	TAAAGATGAG	TTTGACTGCA	AAGCCTGGGC
2951	TTATTTCTCT	GATGTTGACC	TGGAAAAAGA	TGTGCACTCA	GGCCTGATTG
3001	GACCCCTTCT	GGTCTGCCAC	ACTAACACAC	TGAACCCTGC	TCATGGGAGA
3051	CAAGTGACAG	TACAGGAATT	TGCTCTGTTT	TTCACCATCT	TTGATGAGAC
3101	CAAAGCTGG	TACTTCACTG	AAAATATGGA	AAGAACTGC	AGGGCTCCCT
3151	GCAATATCCA	GATGGAAGAT	CCCACTTTTA	AAGAGAATTA	TCGCTTCCAT
3201	GCAATCAATG	GCTACATAAT	GGATACACTA	CCTGGCTTAG	TAATGGCTCA
3251	GGATCAAAGG	ATTCGATGGT	ATCTGCTCAG	CATGGGCAGC	AATGAAAACA
3301	TCCATTCTAT	TCATTTTCAGT	GGACATGTGT	TCACTGTACG	AAAAAAAGAG
3351	GAGTATAAAA	TGGCACTGTA	CAATCTCTAT	CCAGGTGTTT	TTGAGACAGT
3401	GGAAATGTTA	CCATCCAAAG	CTGGAATTTG	GCGGGTGGAA	TGCCTTATTG
3451	GCGAGCATCT	ACATGCTGGG	ATGAGCACAC	TTTTTCTGGT	GTACAGCAAT
3501	AAGTGTCAGA	CTCCCCTGGG	AATGGCTTCT	GGACACATTA	GAGATTTTCA
3551	GATTACAGCT	TCAGGACAAT	ATGGACAGTG	GGCCCCAAAG	CTGGCCAGAC
3601	TTCATTATTC	CGGATCAATC	AATGCCTGGA	GCACCAAGGA	GCCCTTTTCT
3651	TGGATCAAGG	TGGATCTGTT	GGCACCAATG	ATTATTCACG	GCATCAAGAC
3701	CCAGGGTGCC	CGTCAGAAGT	TCTCCAGCCT	CTACATCTCT	CAGTTTATCA
3751	TCATGTATAG	TCTTGATGGG	AAGAAGTGGC	AGACTTATCG	AGGAAATTCC
3801	ACTGGAACCT	TAATGGTCTT	CTTTGGCAAT	GTGGATTTCAT	CTGGGATAAA
3851	ACACAATATT	TTTAACCCTC	CAATTATTGC	TCGATACATC	CGTTTGCACC
3901	CAACTCATTA	TAGCATTCGC	AGCACTCTTC	GCATGGAGTT	GATGGGCTGT
3951	GATTTAAATA	GTTGCAGCAT	GCCATTGGGA	ATGGAGAGTA	AAGCAATATC
4001	AGATGCACAG	ATTACTGCTT	CATCCTACTT	TACCAATATG	TTTGCCACCT
4051	GGTCTCCTTC	AAAAGCTCGA	CTTCACCTCC	AAGGGAGGAG	TAATGCCTGG
4101	AGACCTCAGG	TGAATAATCC	AAAAGAGTGG	CTGCAAGTGG	ACTTCCAGAA
4151	GACAATGAAA	GTCACAGGAG	TAACTACTCA	GGGAGTAAAA	TCTCTGCTTA
4201	CCAGCATGTA	TGTGAAGGAG	TTCCTCATCT	CCAGCAGTCA	AGATGGCCAT
4251	CAGTGGACTC	TCTTTTTTCA	GAATGGCAAA	GTAAAGGTTT	TTCAGGGAAA
4301	TCAAGACTCC	TTCACACCTG	TGGTGAAC TC	TCTAGACCCA	CCGTTACTGA
4351	CTCGCTACCT	TCGAATTACAC	CCCCAGAGTT	GGGTGCACCA	GATTGCCCTG
4401	AGGATGGAGG	TTCTGGGCTG	CGAGGCACAG	GACCTCTACT	GAGGGTGGCC
4451	ACTGCAGCAC	CTGCCACTGC	CGTCACCTCT	CCCTCCTCAG	CTCCAGGGCA
4501	GTGTCCCTCC	CTGGCTTGCC	TTCTACCTTT	GTGCTAAATC	CTAGCAGACA
4551	CTGCCTTGAA	GCCTCCTGAA	TTAACTATCA	TCAGTCCTGC	ATTTCTTTGG
4601	TGGGGGGCCA	GGAGGGTGCA	TCCAATTTAA	CTTAACTCTT	ACCGTCGACC
4651	TGCAGGCCCA	ACGCGGCCGC			

Fig. 12B



1	AAGCTTAAAC	CATGCCCATG	GGGTCTCTGC	AACCGCTGGC	CACCTTGTAC
51	CTGCTGGGGA	TGCTGGTCGC	TTCCGTGCTA	GCCGCCACCC	GCCGCTACTA
101	CCTGGGCGCC	GTGGAGCTGT	CCTGGGACTA	CATGCAGAGC	GACCTGGGCG
151	AGCTCCCCGT	GGACGCCCGC	TTCCCCCCCC	GCGTGCCCAA	GAGCTTCCCC
201	TTCAACACCA	GCGTGGTGTA	CAAGAAAACC	CTGTTCGTGG	AGTTCACCGA
251	CCACCTGTTC	AACATTGCCA	AGCCGCGCCC	CCCCTGGATG	GGCCTGCTGG
301	GCCCCACCAT	CCAGGCCGAG	GTGTACGACA	CCGTGGTGAT	CACCCTGAAG
351	AACATGGCCA	GCCACCCCGT	CAGCCTGCAC	GCCGTGGGCG	TGAGCTACTG
401	GAAGGCCAGC	GAGGGCGCCG	AGTACGACGA	CCAGACGTCC	CAGCGCGAGA
451	AGGAGGACGA	CAAGGTGTTT	CCGGGGGGGA	GCCACACCTA	CGTGTGGCAG
501	GTGCTTAAGG	AGAACGGCCC	TATGGCCAGC	GACCCCTGT	GCCTGACCTA
551	CAGCTACCTG	AGCCACGTGG	ACCTGGTGAA	GGATCTGAAC	AGCGGGCTGA
601	TCGGCGCCCT	GCTGGTGTGT	CGCGAGGGCA	GCCTGGCCAA	GGAGAAAACC
651	CAGACCCCTG	ACAAGTTCAT	CCTGCTGTTC	GCCGTGTTCG	ACGAGGGGAA
701	GAGCTGGCAC	AGCGAGACTA	AGAACAGCCT	GATGCAGGAC	CGCGACGCCG
751	CCAGCGCCCG	CGCCTGGCCC	AAGATGCACA	CCGTTAACGG	CTACGTGAAC
801	CGCAGCCTGC	CCGGCCTGAT	CGGCTGCCAC	CGCAAGAGCG	TGTACTGGCA
851	CGTCATCGGC	ATGGGCACCA	CCCCTGAGGT	GCACAGCATC	TTCTTGAGG
901	GCCACACCTT	CCTGGTGC GC	AACCACCGCC	AGGCCAGCCT	GGAGATCAGC
951	CCCATCACCT	TCCTGACTGC	CCAGACCC TG	CTGATGGACC	TAGGCCAGTT
1001	CCTGCTGTTC	TGCCACATCA	GCAGCCACCA	GCACGACGGC	ATGGAGGCTT
1051	ACGTGAAGGT	GGACAGCTGC	CCCGAGGAGC	CCCAGCTGCG	CATGAAGAAC
1101	AACGAGGAGG	CCGAGGACTA	CGACGACGAC	CTGACCGACA	GCGAGATGGA
1151	TGTCGTACGC	TTCGACGACG	ACAACAGCCC	CAGCTTCATC	CAGATCCGCA
1201	GCGTGGCCAA	GAAGCACCCCT	AAGACCTGGG	TGCACTACAT	CGCCGCCGAG
1251	GAGGAGGACT	GGGACTACGC	CCCGCTAGTA	CTGGCCCCCG	ACGACCGCAG
1301	CTACAAGAGC	CAGTACCTGA	ACAACGGCCC	CCAGCGCATC	GGCCGCAAGT
1351	ACAAGAAGGT	GCGCTTCATG	GCCTACACCG	ACGAGACTTT	CAAGACCCGC
1401	GAGGCCATCC	AGCACGAGTC	CGGCATCC TC	GGCCCCCTGC	TGTACGGCGA
1451	GGTGGGCGAC	ACCCTGCTGA	TCATCTTCAA	GAACCAGGCC	AGCAGGCCCT
1501	ACAACATCTA	CCCCCACGGC	ATCACCGACG	TGCGCCCCCT	GTACAGCCGC
1551	CGCCTGCCCA	AGGGCGTGAA	GCACCTGAAG	GACTTCCCCA	TCCTGCCCGG
1601	CGAGATCTTC	AAGTACAAGT	GGACCGTGAC	CGTGGAGGAC	GGCCCCACCA
1651	AGAGCGACCC	CCGCTGCCTG	ACCCGCTACT	ACAGCAGCTT	CGTGAACATG
1701	GAGCGCGACC	TGGCCTCCGG	ACTGATCGGC	CCCCTGCTGA	TCTGCTACAA
1751	GGAGAGCGTG	GACCAGCGCG	GCAACCAGAT	CATGAGCGAC	AAGCGCAACG
1801	TGATCCTGTT	CAGCGTGTTT	GACGAGAACC	GCAGCTGGTA	TCTGACCGAG
1851	AACATCCAGC	GCTTCCTGCC	CAACCCCGCT	GGCGTGCAGC	TGGAAGATCC
1901	CGAGTTCCAG	GCCAGCAACA	TCATGCACAG	CATCAACGGC	TACGTGTTTCG
1951	ACAGCCTGCA	GCTGAGCGTG	TGCCTGCATG	AGGTGGCCTA	CTGGTACATC
2001	CTGAGCATCG	GCGCCACGAC	CGACTTCCTG	AGCGTGTTC	TCTCCGGGTA
2051	TACCTTCAAG	CACAAGATGG	TGTACGAGGA	CACCCTGACC	CTGTTCCTCT
2101	TCTCCGGCGA	GACTGTGTTT	ATGTCTATGG	AGAACCCCGG	CCTGTGGATT
2151	CTGGGCTGCC	ACAACAGCGA	CTTCCGCAAC	CGCGGCATGA	CTGCCCTGCT
2201	GAAAGTCTCC	AGCTGCGACA	AGAACACCGG	CGACTACTAC	GAGGACAGCT
2251	ACGAGGACAT	CTCCGCCTAC	CTGCTGTCCA	AGAACAACGC	CATCGAGCCC
2301	CGCTCCTTCT	CCCAAACTC	CCGCCACCCC	AGCACGCGTC	AGAAGCAGTT
2351	CAACGCCACC	CCCCCGTGTC	TGAAGCGCCA	CCAGCGCGAG	ATCACCCGCA
2401	CCACCCTGCA	AAGCGACCAG	GAGGAGATCG	ACTACGACGA	CACCATCAGC
2451	GTGGAGATGA	AGAAGGAGGA	CTTCGACATC	TACGACGAGG	ACGAGAACCA
2501	GAGCCCCCGC	TCCTTCCAAA	AGAAAACCCG	CCACTACTTC	ATCGCCGCCG
2551	TGGAGCGCCT	GTGGGACTAC	GGCATGAGCA	GCAGCCCCCA	CGTCCTGCGC
2601	AACCGCGCCC	AGAGCGGCAG	CGTGCCCCAG	TTCAAGAAGG	TGGTGTTCCT
2651	GGAGTTCACC	GACGGCAGCT	TCACCCAGCC	CCTGTACCGC	GGCGAGCTGA

Fig. 13A

2701	ACGAGCACCT	GGGCCTGCTC	GGCCCCCTACA	TCCGCGCCGA	GGTGGAGGAC
2751	AACATCATGG	TGACCTTCCG	CAACCAAGCC	TCCCGGCCCT	ACTCCTTCTA
2801	CTCCTCCCTG	ATCAGCTACG	AGGAGGACCA	GCGCCAGGGC	GCCGAGCCCC
2851	GCAAGAACTT	CGTGAAGCCC	AACGAGACTA	AGACCTACTT	CTGGAAGGTG
2901	CAGCACCACA	TGGCCCCCAC	CAAGGACGAG	TTCGACTGCA	AGGCCTGGGC
2951	CTACTTCAGC	GACGTGGACC	TGGAGAAGGA	CGTGACACAGC	GGCCTGATCG
3001	GCCCCCTGCT	GGTGTGCCAC	ACCAACACCC	TGAACCCCCC	CCACGGGAGG
3051	CAGGTGACTG	TGCAGGAATT	TGCCCTGTTC	TTCAACCATCT	TCGACGAGAC
3101	TAAGAGCTGG	TACTTCACCG	AGAACATGGA	GCGCAACTGC	CGCGCCCCCT
3151	GCAACATCCA	GATGGAAGAT	CCCACCTTCA	AGGAGAACTA	CCGCTTCCAC
3201	GCCATCAACG	GCTACATCAT	GGACACCCTG	CCCGGCCTGG	TGATGGCCCA
3251	GGACCAGCGC	ATCCGCTGGT	ACCTGCTGTC	TATGGGCAGC	AACGAGAACA
3301	TCCACAGCAT	CCACTTCAGC	GGCCACGTTT	TCACCGTGCG	CAAGAAGGAG
3351	GAGTACAAGA	TGGCCCTGTA	CAACCTGTAC	CCCGGCGTGT	TCGAGACTGT
3401	GGAGATGCTG	CCCAGCAAGG	CCGGGATCTG	GCGCGTGGAG	TGCCTGATCG
3451	GCGAGCACCT	GCACGCCGGC	ATGAGCACCC	TGTTCTTGGT	GTACAGCAAC
3501	AAGTGCCAGA	CCCCCCTGGG	CATGGCCAGC	GGCCACATCC	GCGACTTCCA
3551	GATCACCGCC	AGCGGCCAGT	ACGGCCAGTG	GGCTCCCAAG	CTGGCCCCGC
3601	TGCACTACAG	CGGCAGCATC	AACGCCTGGT	CGACCAAGGA	GCCCTTCTCC
3651	TGGATCAAGG	TGGACCTGCT	GGCCCCCATG	ATCATCCACG	GCATCAAGAC
3701	CCAGGGCGCC	CGCCAGAAAGT	TCAGCAGCCT	GTACATCAGC	CAGTTCATCA
3751	TCATGTACTC	TCTAGACGGC	AAGAAGTGGC	AGACCTACCG	CGGCAACAGC
3801	ACCGGCACCC	TGATGGTGTT	CTTCGGCAAC	GTGGACAGCA	GCGGCATCAA
3851	GCACAACATC	TTCAACCCCC	CCATCATCGC	CCGCTACATC	CGCCTGCACC
3901	CCACCCACTA	CAGCATCCGC	AGCACCCCTGC	GCATGGAGCT	GATGGGCTGC
3951	GACCTGAACA	GCTGCAGCAT	GCCCCCTGGGC	ATGGAGAGCA	AGGCCATCAG
4001	CGACGCCCAG	ATCACCGCCT	CCAGCTACTT	CACCAACATG	TTCGCCACCT
4051	GGAGCCCCAG	CAAGGCCCGC	CTGCACCTGC	AGGGCCGCAG	CAACGCCTGG
4101	CGCCCCCAGG	TGAACAACCC	CAAGGAGTGG	CTGCAGGTGG	ACTTCCAGAA
4151	AACCATGAAG	GTGACTGGCG	TGACCACCCA	GGGCGTCAAG	AGCCTGCTGA
4201	CCAGCATGTA	CGTGAAGGAG	TTCCTGATCA	GCAGCAGCCA	GGACGGCCAC
4251	CAGTGGACCC	TGTTCTTTCCA	AAACGGCAAG	GTGAAGGTGT	TCCAGGGCAA
4301	CCAGGACAGC	TTCACACCGG	TCGTGAACAG	CCTGGACCCC	CCCCTGCTGA
4351	CCCGCTACCT	GCGCATCCAC	CCCCAGAGCT	GGGTGCACCA	GATCGCCCTG
4401	CGCATGGAGG	TGCTGGGCTG	CGAGGCCCCAG	GACCTGTACT	GAAGCGGCCG
4451	C				

Fig. 13B